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|---|-----|------|------|---------|-------|
|   |     |      |      |         |       |

10/664,561

Examiner

Vickie Kim

Applicant(s)/Patent under Reexamination

CLARK ET AL.

Art Unit . 1618

✓ Rejected= Allowed

- (Through numeral)
Cancelled

Restricted

Non-Elected

I Interference

A Appeal
O Objected

|            | -                                                  | 5.1      |            |                |          |          |            |              |                                                  |                |
|------------|----------------------------------------------------|----------|------------|----------------|----------|----------|------------|--------------|--------------------------------------------------|----------------|
| Cla        | _                                                  |          | ,          | _              | Da       | te       | _          | _            |                                                  |                |
| Final      | Original                                           | 10/15/05 | 5/14/06    | 1/7/07         |          |          |            |              |                                                  |                |
|            | 1                                                  |          | N          | N              | Г        | T        | $\vdash$   | 1            | $\vdash$                                         | 1              |
|            | 1<br>2<br>3<br>4<br>5<br>6<br>7                    |          | Ν          | -              |          |          |            |              |                                                  | Т              |
|            | 3                                                  |          | N          | N              |          |          |            |              |                                                  |                |
|            | 4                                                  | L        | N          | <u> </u> -     |          |          |            |              |                                                  |                |
| <u> </u>   | 5                                                  | <u> </u> |            | Ŀ              |          | <u> </u> |            |              |                                                  | L              |
|            | 6                                                  |          | N          | Ŀ              | _        | <u>L</u> | L          |              | ļ.,                                              | <u> </u>       |
|            | 7                                                  | <u> </u> | 2 2 2 >    | Ŀ              | _        | ▙        | ↓_         | ┞            | Ļ                                                | _              |
|            | 8                                                  | l        | N          | <u>-</u>       | <u> </u> | ╀        | ↓_         | ╄            | _                                                | <u> </u>       |
|            | 9                                                  | V<br>V   | ۱ <u>۷</u> | V              | <u> </u> | ╀        | +          | ┼            | ╄                                                | <u> </u>       |
|            | 10                                                 | V        | V          | $\frac{v}{v}$  | ⊢        | -        | ╀          | ╀            | ╀                                                | ├              |
| <b>—</b> — | 12                                                 |          | ₩          | V              | -        | ╀        | $\vdash$   | ╀            | ╂                                                | $\vdash$       |
| -          | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19 | V<br>V   | >>>        | \ <u>'</u>     | -        | $\vdash$ | ╀          | ╁            | ╀                                                | +              |
|            | 14                                                 | ₩        | ₩          | Ė              | $\vdash$ | +-       | ╁          | ╁            | 1                                                | ╀              |
| <u> </u>   | 15                                                 | ΙŤ       | Ť          | ١ <del>٠</del> | $\vdash$ | ╁        | ╁          | ╁            | +-                                               | ╁─             |
|            | 16                                                 | Ť        | v          | ·V             | ┝        | 1        | ╁╌         | ╁            | 一                                                | $\vdash$       |
| · · · · ·  | 17                                                 |          | <u> </u>   | V              | ┢        | <u> </u> | $\vdash$   | $\vdash$     | 十                                                |                |
|            | 18                                                 |          |            |                | T        | T        |            | $\vdash$     | 1                                                |                |
|            | 19                                                 | П        |            |                | -        | T        | T          | T            | 1                                                |                |
|            | 20                                                 |          | -          |                |          | Π        |            | Ī            |                                                  |                |
|            | 20<br>21<br>22                                     |          |            |                |          |          |            | Γ            | П                                                |                |
|            | 22                                                 |          |            |                |          |          |            |              |                                                  |                |
|            | 23<br>24<br>25                                     |          |            |                |          |          |            |              |                                                  |                |
|            | 24                                                 |          |            |                |          | <u> </u> | L          |              |                                                  | L              |
|            | 25                                                 | Щ        |            |                |          | L        | L          | ļ            | $oxed{oxed}$                                     |                |
|            | 26                                                 |          |            |                | L        | ╙        | _          | L            | L                                                |                |
|            | 27                                                 |          |            |                |          | <u> </u> | ┞_         | <u> </u>     | ļ.,                                              | $\sqcup$       |
|            | 26<br>27<br>28<br>29<br>30<br>31<br>32             | Н        | _          |                | _        | ⊢        | ⊢          | ⊢            | ├-                                               | Н              |
|            | 29                                                 | Н        |            |                | _        | ⊢        | ⊢          | <del> </del> | ⊢                                                | Н              |
|            | 31                                                 | Н        | -          |                | _        |          | ⊢          | _            |                                                  | $\vdash$       |
|            | 32                                                 | -        | -          |                |          | ⊢        | $\vdash$   | ⊢            | $\vdash$                                         | $\vdash$       |
|            | 33                                                 |          |            |                | -        |          | $\vdash$   | ⊢            | ⊢                                                | $\vdash$       |
|            | 34                                                 | Н        | -          |                | -        | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$                                         | $\vdash$       |
|            | 34<br>35                                           | Н        | $\neg$     |                |          |          | 1          | $\vdash$     | Т                                                | H              |
|            | 36                                                 | H        | $\neg$     | $\neg$         |          |          |            |              | <del>                                     </del> | Н              |
|            | 37                                                 |          |            |                | _        | Г        |            | Т            |                                                  | П              |
|            | 38                                                 |          |            |                |          | Γ        | Г          | Г            | Г                                                | 1              |
|            | 39                                                 |          |            |                |          |          |            |              |                                                  |                |
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|            | 41                                                 | Ш        |            |                |          | Ĺ        |            | <u> </u>     |                                                  |                |
|            | 42                                                 | Щ        |            |                |          | L        | <u> </u>   | _            | L                                                | Ш              |
|            | 43                                                 | Ц        | _          | _              | _        | ldash    | <u> </u> _ | <u> </u>     | <u> </u>                                         |                |
|            | 44                                                 |          | 4          |                | _        | _        | L          | <u> </u>     | <u> </u>                                         | Ш              |
|            | 45<br>46                                           | $\dashv$ | $\dashv$   |                | _        | <u> </u> | ļ          | ļ;           |                                                  | Щ              |
|            | 46                                                 |          | 4          |                |          | _        | ├_         |              | <u> </u>                                         | Щ              |
| — ¦        | 48                                                 | $\dashv$ |            | _              | _        | <u> </u> | $\vdash$   | -            | $\vdash$                                         | Н              |
|            | 48                                                 | -        | -          | -              |          | -        | <u> </u>   |              | Н                                                | Н              |
|            | 50                                                 |          |            | $\dashv$       |          | -        | ├-         | -            |                                                  | $\vdash\vdash$ |
|            | <u> </u>                                           |          |            |                |          | L        | L          |              |                                                  | ш              |

| Date     |          |          |                                     |                | ]   | Cla   | aim       | Date         |          |                                                  |                                                  |                                                  |              |                |          |                 |
|----------|----------|----------|-------------------------------------|----------------|-----|-------|-----------|--------------|----------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------|----------------|----------|-----------------|
|          |          |          |                                     |                |     | Final | Original  |              |          |                                                  |                                                  |                                                  |              |                |          |                 |
| _        |          |          |                                     |                | 1   |       | 51<br>52  |              |          |                                                  |                                                  |                                                  |              |                | L        | L               |
|          | _        | 1        | <del> </del>                        |                | 1   |       | 52        | <u> </u>     | <u> </u> | L                                                | ╙                                                | ╙                                                | ㄴ            | ┕              | <u></u>  | _               |
| _        | <u> </u> | ⊢        | ╀_                                  | ╄              | ┨   |       | 53        | <u> </u>     |          | _                                                | ⊢                                                | ┞                                                | ┡            | ┡              | ــــ     | L               |
|          | _        | -        | ╀                                   | ╄              | 4   |       | 54        | <del> </del> |          | <u> </u>                                         | <b> </b>                                         | ╙                                                | <u> </u>     | _              | ₩        | ļ.,             |
|          | _        | <b>├</b> | ╄                                   | ╀              | -   |       | 55        | ↓_           | <u> </u> | ╙                                                | _                                                | <u> </u>                                         | <u> </u>     | <u> </u>       | ╙        | L               |
| -        |          | ┼        | ╄                                   | ┼              | 1   |       | 56        |              | -        | ┡                                                | ⊢                                                | ⊢                                                | ⊢            | ⊢              | ⊢        | ļ               |
| _        | _        | ⊢        | ┞                                   | ⊢              | - 1 |       | 57        | <u> </u>     |          | ┞                                                | ┝                                                | ┡                                                | ┝            | ⊢              | ⊢        |                 |
|          | —        | ┢        | -                                   | ⊢              | ┨   |       | 58        | <u> </u>     | H        | ├                                                |                                                  | -                                                | ⊢            | Ͱ              | ⊢        | <u> </u>        |
| _        |          | ╁┈       | ┢                                   | -              | 1   |       | 59<br>60  | ├            | ┝        | ⊢                                                | ⊢                                                | ┢                                                | ⊢            | ⊢              | ⊢        | ١               |
| -        | _        | +-       | $\vdash$                            | +-             | 1   |       | 61        | $\vdash$     | $\vdash$ | ├                                                | -                                                | $\vdash$                                         | <del> </del> | $\vdash$       | ⊢        | $\vdash$        |
| -        |          | ╁        | ╁╌                                  | ╁              | ł   |       | 62        | ┢            | $\vdash$ | $\vdash$                                         | -                                                | ╁                                                | ⊢            | ├              | ⊢        | $\vdash$        |
| -        | _        | ╁        |                                     | $\vdash$       | 1   |       | 63        | 1            | -        | $\vdash$                                         | $\vdash$                                         | <del>                                     </del> | $\vdash$     | <del>  -</del> | $\vdash$ | $\vdash \vdash$ |
| $\dashv$ |          | $\vdash$ | $\vdash$                            | $\vdash$       | 1   |       | 64        | $\vdash$     | $\vdash$ | <del>                                     </del> | $\vdash$                                         | $\vdash$                                         | $\vdash$     | $\vdash$       | ⊢        | $\vdash$        |
| $\neg$   |          | ╁        | -                                   | t-             | 1   |       | 65        | ╌            | $\vdash$ | $\vdash$                                         | $\vdash$                                         | ┢                                                | ⊢            | ├              | ╁        | Н               |
| $\neg$   |          | $t^-$    | $\vdash$                            | 1-             | 1   |       | 66        | $\vdash$     |          | 1                                                | $\vdash$                                         | $\vdash$                                         | $\vdash$     | -              | $\vdash$ | Н               |
| $\neg$   |          | $\vdash$ | $\vdash$                            | <b>†</b>       | 1   |       | 67        | _            | $\vdash$ | <del>                                     </del> | <del> </del>                                     | $\vdash$                                         |              |                | $\vdash$ | H               |
| $\neg$   |          |          | 1                                   | $\vdash$       | 1   |       | 68        | Г            | -        | Н                                                | $\vdash$                                         | T                                                |              |                | $\vdash$ | Н               |
|          |          |          |                                     | $\vdash$       | 1   |       | 69        |              | $\vdash$ | $\vdash$                                         | $\vdash$                                         | <del>                                     </del> | -            |                | ┢        | Н               |
|          |          | T        |                                     |                | 1   |       | 70        |              |          | $\vdash$                                         | ┢                                                | $\vdash$                                         | $\vdash$     | -              | ╁╌       | Н               |
|          |          | 1        | $\vdash$                            | T              | 1 1 |       | 71        | 1            |          | _                                                | $\vdash$                                         | <del>                                     </del> | ┢            |                | ┢        | Н               |
| $\neg$   |          | T        | T                                   | T              | 1   |       | 72        |              |          | <del>                                     </del> | Ι-                                               | ┢                                                | H            | -              | 一        | $\vdash$        |
|          | _        |          | $\vdash$                            |                | 1 1 |       | 72<br>73  |              |          |                                                  | ┢                                                | _                                                |              | _              | ┢        | Н               |
|          |          |          | $\vdash$                            | Ī              | 1   |       | 74        |              |          |                                                  | <del>                                     </del> | $\vdash$                                         |              | $\vdash$       | T        | H               |
|          |          |          |                                     |                | 1   |       | 75        |              |          |                                                  |                                                  | $\vdash$                                         | $\vdash$     | _              | Н        | П               |
|          |          |          | Г                                   |                |     |       | 76        |              |          |                                                  |                                                  | 1                                                |              |                | $\vdash$ | П               |
| П        |          |          |                                     | П              |     |       | 77        |              |          |                                                  |                                                  |                                                  |              | <u> </u>       |          | П               |
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|          |          |          |                                     |                | ] [ |       | 80        |              |          |                                                  |                                                  |                                                  |              |                |          | П               |
|          |          | L        |                                     |                |     |       | 81        |              |          |                                                  |                                                  |                                                  |              |                |          |                 |
| _        |          |          | <u> </u>                            |                |     |       | 82        |              |          |                                                  |                                                  |                                                  |              |                |          |                 |
| _[       |          | <u> </u> |                                     |                | [   |       | 83        |              |          |                                                  |                                                  |                                                  |              |                |          |                 |
|          |          | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>       |     |       | 84        | Ш            |          |                                                  |                                                  |                                                  |              |                |          |                 |
|          |          | <u> </u> | <u> </u>                            |                |     |       | 85        | Ш            |          |                                                  | L                                                |                                                  |              |                |          |                 |
| _        |          | <u> </u> | L                                   | Ш              |     |       | 86        |              |          |                                                  |                                                  |                                                  |              | 匚              |          |                 |
| 4        |          | <u> </u> | _                                   | <u> </u>       |     |       | 87        | $\square$    |          | Щ                                                |                                                  |                                                  |              |                |          |                 |
| 4        | -        | _        | <u> </u>                            | <u> </u>       |     |       | 88        |              |          | Щ                                                |                                                  | L                                                |              | L              |          |                 |
| 4        | _        | <u> </u> | L.,                                 | <u> </u>       |     |       | 89        | $\Box$       |          |                                                  | L.,                                              | L                                                |              | Ш              | Ш        |                 |
| 4        | _        | L_       | <u> </u>                            | $\vdash$       |     |       | 90        |              |          |                                                  | _                                                |                                                  | Щ,           | L.,            | Ш        | ·               |
| 4        | _        | <b> </b> | <u> </u>                            | $\vdash$       |     |       | 91        |              | _        |                                                  | Щ                                                |                                                  | Щ            | Щ.             | Ш        | Ш               |
| 4        | _        | $\vdash$ | $\vdash$                            | Щ              |     |       | 92        |              | _        | Щ                                                | Щ                                                |                                                  |              | Ш              | Щ        | Ш               |
| 4        | _        |          | $\vdash$                            | Н              |     |       | 93        | $\vdash$     | _        |                                                  | Щ                                                | Н                                                |              | Щ              | Ш        | Щ               |
| $\dashv$ |          |          | <u> </u>                            | Н              |     |       | 94        | $\square$    | _        | _                                                | $\vdash$                                         |                                                  |              | Щ              | Щ        | Щ               |
| -        |          |          |                                     | $\vdash$       |     |       | 95        | $\dashv$     | _        | Ш                                                | $\vdash$                                         |                                                  |              |                | $\vdash$ | Ш               |
| $\dashv$ | $\dashv$ |          |                                     | Н              |     |       | 96        |              | _        |                                                  |                                                  | $\vdash$                                         | Щ            | Щ              | $\vdash$ | Ш               |
| +        | $\dashv$ |          | $\vdash$                            | Н              |     |       | 97        |              | -        |                                                  |                                                  | -                                                | Щ            | Щ              | Ш        | $\dashv$        |
| $\dashv$ | $\dashv$ | $\vdash$ | $\vdash$                            | $\vdash\vdash$ |     |       | 98        | -            |          |                                                  |                                                  |                                                  |              | $\vdash$       | $\vdash$ | $\dashv$        |
| +        | -        | $\vdash$ |                                     | Н              |     |       | 99<br>100 | $\dashv$     | $\dashv$ | $\dashv$                                         | $\dashv$                                         | -                                                | Ш            | _              | $\dashv$ | $\dashv$        |
|          |          | لبا      |                                     | Ш              | L   |       | 100       |              |          |                                                  |                                                  |                                                  |              |                | Ш        |                 |

| Cla    | Date              |              |                                                  |          |          |                |              |           |          |                 |
|--------|-------------------|--------------|--------------------------------------------------|----------|----------|----------------|--------------|-----------|----------|-----------------|
| Final  | Original          |              |                                                  |          |          |                |              |           |          |                 |
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|        | 102<br>103        |              |                                                  |          |          |                |              |           |          |                 |
|        | 103               | _            | _                                                | L        | <u> </u> | ┖              | ㄴ            | L         | <u> </u> | Ш               |
|        | 104               | L            | L                                                | <u> </u> | L        | ـــــ          | L            | ╙         | _        | Ш               |
|        | 105<br>106        | <u> </u>     | _                                                | _        | <u> </u> | ļ              | ┡            | ┞         | _        | Ш               |
|        | 105               | <u> </u>     | ⊢                                                | ⊢        | ⊢        | <u> </u>       | ├            | ├         | ļ        | Н               |
|        | 107               | <del> </del> | $\vdash$                                         | ├        | -        | ┝              | ⊢            | ╁         | -        | Н               |
|        | 108<br>109        |              | -                                                | ⊢        | $\vdash$ | ╁╌             | <del> </del> | ⊢         | $\vdash$ | Н               |
|        | 110               |              | 1                                                | $\vdash$ | ┢        | <del>  -</del> | $\vdash$     | ┢         | $\vdash$ | H               |
|        | 111               | _            | <del>                                     </del> | $\vdash$ |          |                |              |           | _        | Н               |
|        | 112               |              | 一                                                |          |          |                |              |           |          | Н               |
|        | 113               |              |                                                  |          |          |                |              |           | Γ        | П               |
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|        | 115               |              |                                                  |          |          |                |              |           |          |                 |
|        | 116<br>117        |              |                                                  | _        |          |                |              |           |          |                 |
|        | 117               | _            |                                                  | <u> </u> | L_       | L              | L_           | <u> </u>  | <u> </u> | Ш               |
|        | 118               |              | _                                                | _        | _        | <del> </del> _ | <u> </u>     | _         | <u> </u> | Щ               |
|        | 119<br>120        | <u> </u>     | H                                                | _        | _        | _              | ļ            | _         | _        |                 |
|        | 120               |              | ⊢                                                | $\vdash$ | $\vdash$ | ├              | <del> </del> | <b>—</b>  | -        |                 |
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|        | 122<br>123        | _            | $\vdash$                                         | -        | -        | ┢╌             | -            | ┝         | -        | $\vdash$        |
|        | 124               |              |                                                  | $\vdash$ | $\vdash$ |                | H            | $\vdash$  |          | Н               |
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|        | 131               |              |                                                  |          | _        | _              | <u> </u>     | _         |          |                 |
|        | 132               |              | -                                                |          | _        | _              | <u> </u>     | <u> </u>  | Ш        | Н               |
|        | 133<br>134        | _            | $\vdash$                                         | _        | _        | _              | $\vdash$     | _         |          | Н               |
|        | 135               | -            | Н                                                | Н        | _        | -              | -            | $\vdash$  | $\vdash$ | $\vdash \vdash$ |
|        | 136               |              | Н                                                | Н        | _        | -              | Ι            | $\vdash$  | Н        | $\dashv$        |
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|        | 143               | _            |                                                  | $\dashv$ |          | Ш              | Щ            | Щ         | Ш        | _               |
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|        | 147               | -            |                                                  | -        |          | $\vdash$       | _            | Н         | $\dashv$ | $\dashv$        |
|        | 148               | -            | -                                                | $\dashv$ |          | $\vdash$       | -            | $\dashv$  | -        |                 |
|        | 149               | ᅥ            | -                                                | -        |          | $\vdash$       |              | -         | $\dashv$ | $\dashv$        |
|        | 150               | $\dashv$     | $\dashv$                                         | $\dashv$ | T        | $\vdash$       |              | $\dashv$  | $\dashv$ | $\dashv$        |
|        |                   |              |                                                  |          | _        | ш              |              |           |          |                 |